



XP 000189097

6001 Chemical Abstracts  
84(1976)19 April, No.16, Columbus, OH, US

P. 333

Con B28/18

84: 110612t High-strength, extrusion-molded, lightweight calcium silicate product. Otoma, Takashi; Kubota, Kazuo; Yamada, Toshio (Nippon Asbestos Co., Ltd.) Japan. Kokai 75 95,319 (Cl. B28B), 29 Jul 1975, Appl. 73 143,931, 26 Dec 1973; 3 pp. A mixt. of calcareous and siliceous materials is mixed with a slurry of a hydrothermally synthesized Ca silicate [23296-15-3]. The resulting slurry is dewatered to adjust its water content to 50-120%, based on the total solids content, extruded, autoclaved, and dried to obtain high-strength Ca silicate products useful as building materials. Thus, Ca silicate hydrothermally synthesized from powd. siliceous stone 52 and milk of lime 1100 parts was dispersed in 15-fold water, and the slurry 30 parts (as solids content) was mixed with a mixt. of powd. siliceous stone 15, portland cement 35, bentonite 10, amosite asbestos 5, and methylcellulose 0.2 part. The mixt. was dewatered to water content 80-90% (based on the solids content), extruded, autoclaved at steam pressure 9 kg/cm<sup>2</sup> for 7 hr, and dried to obtain a lightwt. silicate product having d. 0.75 g/cm<sup>3</sup> and bending strength 80 kg/cm<sup>2</sup>. Its shrinkage was 1.12% when heated at 1000°.